ALTER BLDG. 2855 FOR TEMPORARY AGE SHOP

GAS LINE PLAN NOTES
Drawing Sheet #7

3 September 2003

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

1. Bldg. 2855, Temporary AGE Shop.

2. New 1-1/2 inch dia. Polyethylene Plastic Underground Natural Gas Line and new 2-1/2 inch dia. flexible, smooth wall pipe suitable for carrying underground communications cable. (The same material as used for the gas line may be used for the Comm. Duct.) The Gas Line is approximately 300 feet long and the Comm. Duct is approximately 370 feet long. Use directional boring techniques to install the Gas Line and the Comm. Duct. The Gas Line and the Comm. Duct may be installed together, simultaneously. The contractor shall obtain the services of an Underground Utilities Locating Service to locate and uncover existing underground utilities that the new Gas Line and Comm. Duct will cross. The Underground Utilities Locating Service use non-destructive excavating methods to uncover the existing utility lines. Backfill and compact all excavations. Spread topsoil over the excavation area, fine grade and rake, seed and mulch with straw.

   The Polyethylene Plastic Gas Line shall meet or exceed the requirements of ASTM D-2513 and have markings on the pipe indicating that it meets ASTM D-2513. The gas line installer shall follow the gas line manufacturer's recommendations for joining pieces of pipe and fittings. The contractor shall submit the qualifications of the workmen that will be installing the gas line and the manufacturer's recommendations for joining the pipe. The gas line, between the Hot Tap Connection and the Plug Valve at the Pressure Regulator, shall be pressure tested a 100 psi or more for at least 30 minutes. Attach the #10 insulated solid copper tracer wire to the gas line with duct tape. The tracer wire shall be electrically connected to each adjacent, original section of wire to assure a continuous indicator of the plastic piping.

3. Existing Underground Power Line. The contractor shall obtain the services of an Underground Utilities Locating Service to locate and uncover existing underground utilities that the new Gas Line and Comm. Duct will cross.

4. Existing Underground Oily Water Line. The contractor shall obtain the services of an Underground Utilities Locating Service to locate and uncover existing underground utilities that the new Gas Line and Comm. Duct will cross.

5. Existing Underground Communications Duct. The contractor shall obtain the services of an Underground Utilities Locating Service to locate and uncover existing underground utilities that the new Gas Line and Comm. Duct will cross.

6. Existing 4" dia. Underground Polyethylene Plastic Natural Gas Line. The contractor shall obtain the services of an Underground Utilities Locating Service to locate and uncover existing underground utilities that the new Gas Line and Comm. Duct will cross.

7. Connect the new 1-1/2 inch dia. Polyethylene Plastic Underground Natural Gas Line to the existing 4" dia. underground polyethylene plastic natural gas line using the Hot Tap method. The Hot Tap shall meet the requirements of ASTM D-2513. The contractor shall submit the qualifications of the workmen that will be making the Hot Tap connection and the Hot Tap Connection manufacturer's recommendations for installation. The Hot Tap installer shall follow the manufacturer's recommendations for installation. Also install a 1-1/2 inch Service Valve in the new Gas Line within 3 feet of the Hot Tap connection. The Service Valve shall be Kerotite Curb Stop by Kerotest or approved equal. The Service Valve shall be tested to ANSI Standard B 16.40 and shall meet the requirements of ASTM D-2513. Install an adjustable 4" valve box over the service valve. Valve box shall be as manufactured by Handley Industries, Inc. or approved equal. Valve box tube is to be depth adjustable and is to be formed from ABS plastic. The top flange is to be 1-1/2" cast iron with a cast iron drop-in lid marked "GAS".

8. Natural Gas Service Entrance. Transition up from the 1-1/2 inch dia. Underground Polyethylene Plastic Natural Gas Line to steel pipe with a 1-1/2 inch dia. wide sweep, 90 deg. anodeless riser by Perfection Corp or approved equal. See the Mechanical Plan Drawing and Notes for additional details.

9. Existing Communications Duct Hand Hole. Extend the new 2-1/2 inch dia. Comm. Duct with #12 pull wire to the hand hole. Cut through the 6" thick concrete wall of the hand hole and install the Comm. Duct and pull wire into the hand hole. Fill the opening between the Comm. Duct and the concrete wall with cement grout. Place the cement grout from both the inside and the outside of the hand hole in a manner that will make a strong, tight, water resistant seal.

10. New Telephone Service Entrance. Use a 2-1/2 inch diameter, rigid conduit, wide sweep 90 deg. elbow to transition up from the underground 2-1/2 inch dia. flexible, smooth wall pipe Comm. Duct. Use a plastic pipe to rigid conduit connection fitting. Extend the 2-1/2 inch rigid conduit up the side of the building. Extend the #12 pull wire up into the rigid conduit. See the Electrical Plan Drawing and Notes for additional details.